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LOWE HAUPTMAN HAM & BERNER, LLP			FARAGALLA, MICHAEL A	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/526,077	Applicant(s) KIM ET AL.
	Examiner MICHAEL FARAGALLA	Art Unit 2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 05/30/3008.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-17 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-17 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____

5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

1. This action is in response to the amendment filed on 05/06/2008. This action is made **FINAL**.

Response to Arguments

2. Applicant's arguments filed on 05/06/2008 have been fully considered but they are not persuasive. An explanation as to why the claims are still rejected is forthcoming.

Regarding the argument that Park in view of Hong Park does not teach furnishing a call-receiving exchanger with second information before a call sending is tried from the call sending terminal to the call receiving terminal, Examiner respectfully disagrees with applicant, since according to Park, the HLR 300 sends a routing request in order to connect the receiving mobile to the receiving MSC. Further, the SCP receives an analyzed information from the MSC 200. The analyzed information includes the MIN. Finally, the SCP performs a Seizeres request to the IP that fetches the alternative sound information.

Regarding the argument that Park in view of Hong Park does not show that wherein a sound providing means determines a tone-replacing sound based on received subscriber identification information, Examiner respectfully disagrees

since on Park page 4, lines 11-16 and on figure 2, the identity of the mobile phone is sent MSC in order to provide sound for the mobile terminal.

Regarding the argument that Park does not disclose that different ringback tone (RBT) replacing sounds are provided to the call sending terminal according to the state of the call receiving terminal, Examiner respectfully disagrees since in previous actions, it was indicated that Park does not disclose such limitation, and that is why a secondary reference is used to show such limitation by using Hong Park on page 5, lines 1-7, which indicates that tone types are used for various call states.

Regarding claims 8 and 5, the claims state "calling time and/or calling state", the Examiner relies on tables 1 and 2 to provide calling state which would satisfy the claim limitations.

Both references used are in the same art, and therefore can be combined and used in order to show obviousness of claims with respect to prior art.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1-9,12-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Park (Patent number: 2000-0000244)** in view of **Hong Park (publication number: 1999-0055454)**.

Consider **Claim 1**, Park clearly shows and discloses a method of providing an arbitrary sound (hereinafter read as alternative sound) to replace a conventional tone (hereinafter read as ringback tone) in a communication network comprising:

(a) A first step conducted by an HLR (Home Location Register), of furnishing an exchanger (hereinafter read as MSC), when a location of a call receiving terminal is registered through the call receiving exchanger and before a call sending is attempted from a call sending terminal to the call receiving terminal, with first information on whether an ordinary tone is to be replaced or not and second information informing a route to a sound providing means (hereinafter read as IP) (page 4, lines 8-33; figure 2); (according to Park, the HLR 300 sends a routing request in order to connect the receiving mobile to the receiving MSC. Further, the SCP receives an analyzed information from the MSC 200. The analyzed information includes the MIN. Finally, the SCP performs a Seizeres request to the IP that fetches the alternative sound information).

- (b) A second step, conducted by the exchanger, of requesting a trunk connection to the sound providing means, if the terminal is called by a caller based on the first and the second information (page 4, lines 22-33).
- (c) A third step, conducted by the sound providing means, of determining a tone – replacing sound based on the received third information for the terminal, and providing the determined tone-replacing sound as a ringback tone to the caller through the exchanger which the trunk connection is made to (page 4, lines 28-35; page 5, lines 1-18; figure 2).

However, Park does not specifically show that the second step conducted by the exchanger, of requesting a trunk connection to the sound providing means, if the terminal is called by a caller, based on the first and the second information includes furnishing the sound providing means with a third information on call state.

In related art, Hong Park shows that the second step conducted by the exchanger, of requesting a trunk connection to the sound providing means, if the terminal is called by a caller, based on the first and the second information includes furnishing the sound providing means with a third information on call state (page 4, lines 17-24; page 5, lines 1-12).

Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to incorporate the teaching of Hong Park into the teaching of Park in order to provide a method for notifying various call states such that a subscriber may recognize a call state easily in a switching system (Hong Park, page 4, lines 17-19).

Consider **Claim 2**, Park clearly shows and discloses a method of providing an arbitrary sound (hereinafter read as alternative sound) to replace a conventional tone (hereinafter read as ringback tone) in a communication network comprising:

- (a) A first step conducted by an HLR (Home Location Register), of furnishing an exchanger (hereinafter read as MSC), when a terminal is registered through the exchanger, with first information on whether an ordinary tone is to be replaced or not and second information informing a route to a sound providing means (hereinafter read as IP) (page 4, lines 8-33; figure 2); (according to Park, the HLR 300 sends a routing request in order to connect the receiving mobile to the receiving MSC. Further, the SCP receives an analyzed information from the MSC 200. The analyzed information includes the MIN. Finally, the SCP performs a Seizeres request to the IP that fetches the alternative sound information).
- (b) A second step, conducted by the exchanger, of requesting a trunk connection to the sound providing means, if the terminal is called by a caller based on the first and the second information (page 4, lines 22-33).
- (c) A third step, conducted by the sound providing means, of determining a tone – replacing sound based on the received third information for the terminal, and providing the determined tone-replacing sound as a ringback tone to the caller through the exchanger which the trunk connection is made to (page 4, lines 28-35; page 5, lines 1-18; figure 2).

- (d) A fourth step, conducted by the exchanger, of requesting release of the first trunk connection to the sound providing means, if the terminal accepts the call from a caller (page 4, lines 22-33).
- (e) A fifth step, conducted by the sound providing means, of determining a tone-replacing sound based on the received fourth information for the terminal, and providing the determined tone-replacing sound to the former caller through the exchanger which the second trunk connection is made to (page 4, lines 28-35; page 5, lines 1-18; figure 2).

However, Park does not specifically show that:

- (a) The second step, conducted by the exchanger, of requesting a first trunk connection to the sound providing means, if the terminal is called by a latter caller under already-connected condition to a former caller, based on the first and the second information while providing the sound providing means with third information on call state.
- (b) Providing the determined tone replacing sound as a ringback tone to the latter caller through the exchanger.
- (c) The fourth step, conducted by the exchanger, of requesting release of the first trunk connection to the sound providing means, if the terminal accepts the call from the later caller, and requesting a second trunk connection to the sound providing means for the connected former caller while providing the sound providing means with fourth information on call switched.
- (d) Providing the determined tone-replacing sound as a call-waiting tone to the former caller through the exchanger, which the second trunk connection is made to.

In related art, Hong Park shows that:

- (a) The second step, conducted by the exchanger, of requesting a first trunk connection to the sound providing means, if the terminal is called by a latter caller under already-connected condition to a former caller, based on the first and the second information while providing the sound providing means with third information on call state (page 4, lines 20-24; page 5, lines 1-8; table 1); (call states of receiving mobile are recorded and then displayed for the calling party according to table 1).
- (b) Providing the determined tone replacing sound as a ringback tone to the latter caller through the exchanger (table 1; page 4, lines 20-24; page 5, lines 1-8).
- (c) The fourth step, conducted by the exchanger, of requesting release of the first trunk connection to the sound providing means, if the terminal accepts the call from the later caller, and requesting a second trunk connection to the sound providing means for the connected former caller while providing the sound providing means with fourth information on call switched (table 1; page 4, lines 20-24; page 5, lines 1-8).
- (d) Providing the determined tone-replacing sound as a call-waiting tone to the former caller through the exchanger, which the second trunk connection is made to (table 1); (according to Hong Park, messages or music are recorded and then displayed to a calling party to show the state of the receiving phone, which includes putting the second caller on hold, which means that there are two connections (trunks) that are released to the former and the latter callers).

Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to incorporate the teaching of Hong Park into the teaching of Park

in order to provide a method for notifying various call states such that a subscriber may recognize a call state easily in a switching system (Hong Park, page 4, lines 17-19).

Consider **Claims 3 and 12**, Park as modified by Hong Park shows the method of claim 1 as well as the method of claim 2, but fails to specifically show that the third information is to indicate that the terminal is **busy**.

In related art, Hong Park shows that the third information is to indicate that the terminal is **busy** (table 1).

Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to incorporate the teaching of Hong Park into the teaching of Park in order to notify the calling party of the call state (Hong Park page 4, lines 20-23).

Consider **Claim 4**, Park as modified by Hong Park shows the method of claim 2, but fails to specifically show that the fourth information is to indicate that either of the callers is suspended to wait for call reconnection.

However, in related art, Hong Park shows that the fourth information is to indicate that either of the callers is suspended to wait for call **RECONNECTION** (table 1; third row indicates that there is a message for the caller telling him/her to call again because there is no answer).

Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to incorporate the teaching of Hong Park into the teaching of Park

in order to notify various call states associated with subscriber phone usage (Hong Park; page 9, lines 11-14).

Consider **Claims 5 and 13**, Park as modified by Hong Park shows the method of claim 1 as well as the method of claim 2, but fails to specifically show that the first information on whether an ordinary tone is to be replaced or not is set in the HLR based on specific key information received from the terminal.

However, , in related art, Hong Park shows that the first information on whether an ordinary tone is to be replaced or not is set in the HLR based on specific key information received from the terminal (page 14, lines 2-15).

Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to incorporate the teaching of Hong Park into the teaching of Park in order to notify various call states by voice messages instead of tones (Hong Park; abstract, lines 8-15).

Consider **Claims 6 and 14**, Park as modified by Hong Park shows the method of claim 1 as well as the method of claim 2, wherein the first and the second information are included in a response message to a location registration request message, the response message being sent from the HLR to the exchanger (page 4, lines 8-21; figure 2).

Consider **Claim 7**, Park as modified by Hong Park shows the method of claim 6, wherein the first information is written in a reserve field allocated in value-added service parameters of subscriber's profile (page 4, lines 22-30).

Consider **Claims 8 and 15**, Park as modified by Hong Park shows the method of claim 1 as well as the method of claim 2, wherein the sound providing means determines the tone-replacing sound based on who the caller is, which group the caller belongs to among several groups classified by the called (page 5, lines 12-18).

However, Park does not show that the sound providing means determines the tone-replacing sound based on calling time, and/or calling state.

In related art, Hong Park shows show that the sound providing means determines the tone-replacing sound based on calling time, and/or calling state (tables 1 and 2).

Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to incorporate the teaching of Hong Park into the teaching of Park in order to notify the calling party of the call state (Hong Park page 4, lines 20-23).

Consider **Claims 9 and 16**, Park as modified by Hong Park shows the method of claim 1 as well as the method of claim 2, wherein a message to request a trunk connection to the sound providing means includes called- and caller- identification (page 4, lines 22-27; page 5, lines 12-18).

5. Claims **10,11 and 17** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Park (Patent number: 2000-0000244)** in view of **Hong Park (publication number: 1999-0055454)** and further in view of **Chavez, Jr. et al (Patent number: 6,603,844)**.

Consider **Claims 10 and 17**, Park as modified by Hong Park shows the method of claim 1 as well as the method of claim 2, but fail to specifically show that the sound providing means changes a current tone-replacing sound specified for the called with another one through communication with a web server operating on internet protocol.

However, in related art, Chavez, Jr. et al show that the sound providing means changes a current tone-replacing sound specified for the called with another one through communication with a web server operating on internet protocol (abstract; column 2, lines 38-52).

Therefore it would have been obvious to a person skilled in the art at the time the invention was made to incorporate the teaching of , Chavez, Jr. et al into the teachings of Park and Hong Park in order to send an advertisement to a calling party instead of a normal ring back tones (abstract).

Consider **Claim 11**, Park as modified by Hong Park shows the method of claim 10, but fail to specifically show that said another sound is one already stored in the sound providing means or received via the web server.

However, in related art, Chavez, Jr. et al show that the another sound is received via the web server (abstract; column 2, lines 38-52).

Therefore it would have been obvious to a person skilled in the art at the time the

invention was made to incorporate the teaching of , Chavez, Jr. et al into the

teachings of Park and Hong Park in order to send an advertisement to a calling

party instead of a normal ring back tones (abstract).

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL FARAGALLA whose telephone number is (571)270-1107. The examiner can normally be reached on Mon-Fri 7:30 am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/
Supervisory Patent Examiner, Art Unit 2617

/Michael Faragalla/
Examiner, Art Unit 2617

07/28/2008